Please add the following claims:

--33. An isolated antibody which binds to DR4 polypeptide comprising amino acid residues 24 to 218 of Figure 1 (SEQ ID NO:1) and which induces apoptosis in at least one type of mammalian cancer cell.

34. The antibody of Claim 33 which is a monoclonal antibody.

35. The antibody of Claim 33 which is a human antibody.

36. The antibody of Claim 33 which is a humanized antibody.

37. The antibody of Claim 33 which is a chimeric antibody.

38. The antibody of Claim 33 wherein said mammalian cancer cell expresses DR4 polypeptide.

39. The antibody of Claim 33 wherein said mammalian cancer cell is a lung cancer cell.

40. The antibody of Claim 33 wherein said mammalian cancer cell is a colon cancer cell.

41. The antibody of Claim 33 which is cross-linked to a homologous DR4 antibody.

42. An isolated antibody which binds to DR4 polypeptide comprising amino acid residues 24 to 218 of Figure 1 (SEQ ID NO:1) and which blocks binding of Apo-2 ligand to said DR4 polypeptide.

43. The antibody of Claim 42 which is a monoclonal antibody.

44. The antibody of Claim 42 which is a human antibody.

45. The antibody of Claim 42 which is a humanized antibody.

46. The antibody of Claim 42 which is a chimeric antibody.

47. An isolated antibody which binds to DR4 polypeptide comprising amino acid residues 24 to 218 of Figure 1 (SEQ ID NO:1) and which blocks Apo-2 ligand induced apoptosis in at least one type of mammalian cancer cell.

48. The antibody of Claim 47 which is a monoclonal antibody.

49. The antibody of Claim 47 which is a human antibody.

50. The antibody of Claim 47 which is a humanized antibody.

51. The antibody of Claim 47 which is a chimeric antibody.

52. The antibody of Claim 47 wherein said mammalian cancer cell expresses DR4 polypeptide.

53. The antibody of Claim 47 wherein said mammalian cancer cell is a lung cancer cell.

54. The antibody of Claim 47 wherein said mammalian cancer cell is a